BELKIN®

BLUETOOTH™ USB ADAPTER

USER MANUAL

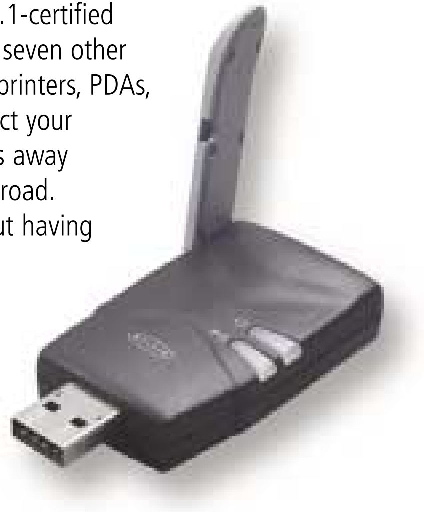
Bluetooth™

F8T001

TABLE OF CONTENTS

INTRODUCTION

Thank you for purchasing the *Bluetooth* USB Adapter (the USB Adapter) from Belkin featuring *Bluetooth* wireless technology. The USB Adapter lets you create cable-free connections between your USB desktop PC and devices using *Bluetooth* wireless technology.
The USB Adapter is compatible with all *Bluetooth* v1.1-certified devices and enables you to wirelessly connect up to seven other devices enabled with *Bluetooth* technology, such as printers, PDAs, and cell phones simultaneously. Now you can connect your peripherals and computing devices up to 100 meters away without cables in your home, office, or while on the road. Establish ad-hoc connection between devices without having to configure a network.



Before you install and start using your new USB Adapter, please take a few minutes to review some of the terms that you will be seeing throughout the document. You will find a brief Glossary on page 27 of this manual.

PRODUCT FEATURES

The USB Adapter is compliant with *Bluetooth* standard version 1.1 and provides:

- Compliancy with *Bluetooth* specification v1.1 devices
- USB bus powering: No external power supply necessary
- Support for Microsoft® Windows® 98 SE, Me, 2000, and XP
- Operating distance of up to 100 meters
- Point-to-multipoint connections
- Support for data rates up to 721Kbps
- Built-in security: up to 128-bit encryption and authentication
- Compatibility with USB desktop and notebook computers

SYSTEM REQUIREMENTS

- PC-compatible computer, CPU speed of 200MHz or above
- Memory: 64MB or above, 128MB recommended
- One available USB port, USB 1.1 standard
- Windows 98 SE, Me, 2000, and XP

PACKAGE CONTENTS

- *Bluetooth* USB Adapter
- 5 Ft. USB Extension Cable
- CD-ROM for installation software and documentation
- User Manual
- Quick Installation Guide

USB ADAPTER SPECIFICATIONS

Bluetooth Compliance:	Version 1.1
Physical Interface:	USBUHCI/OHCI 1.1-compliant
Operating Frequency:	2.4 to 2.4835GHz
Output Power:	0 to 20 dBm, Class 1, 2, 3
Sensitivity:	-80 dBm @ 1E-3 BER minimum
Data Rate:	723/57.6Kbps
Operating Range:	100-meter radius indoors
Network Topology:	Point-to-Multipoint
Packet Support:	1/3/5 Slots Packet
Operation:	Master/Slave
Frequency Stability:	+/- 10PPM
LED Indicator:	Power On, Data Traffic
Antenna Type:	External
Dimensions:	70mm (L) x 33mm (W) x 13mm (H)
Weight:	0.9oz.
Operating Temp:	0 to 50 degrees Celsius
Storage Temp:	-15 to +55 degrees Celsius
Humidity:	10-90% (non-condensing)
Supply Voltage:	5.0VDC
Nominal Current:	100mA
Support Profiles:	Service Discovery, File Transfer, Serial Port, DUN, LAN, Generic Object Exchange, Business Card, Push, Pull & Exchange
OS Support:	Windows 98 SE, Me, 2000, and XP

Specifications are subject to change without notice.

SUPPORTED PROFILES

The services supported by your USB Adapter are defined as “Profiles”. Available profiles include:

- Generic Access
- Service Discovery
- Serial Port
- LAN Access
- Dial-Up Networking
- Generic Object Exchange
- Object Push
- File Transfer
- Synchronization

Your USB Adapter gives you the ability to do the following—without cables:

- Transfer files
- Access dial-up networks
- Connect to local area networks
- Perform an ActiveSync® session
- Connect to serial ports
- Exchange PIM data
- Send or exchange business cards

The basic functions of the *Bluetooth* Neighborhood include:

- Device Discovery
- Service Discovery
- Establishing links with remote devices

Software Setup for Windows 98 SE, Me, 2000, and XP

To install the software for the USB Adapter, follow the instructions below:

Note: The installation process for Windows XP may look slightly different from Windows 98 SE, Me, and 2000.

Note: Do not insert the USB Adapter into the USB port prior to installation.

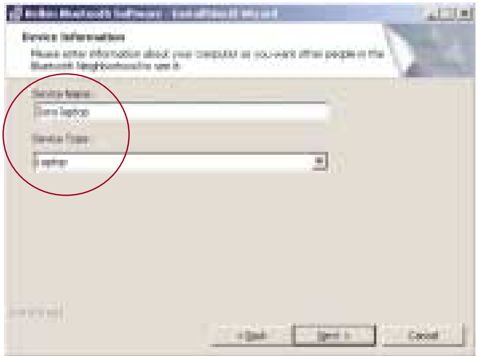
1. Insert the software installation CD-ROM into the PC's CD-ROM drive.
2. The "Software InstallShield Wizard" window appears. Click on "Next" to begin the installation process.



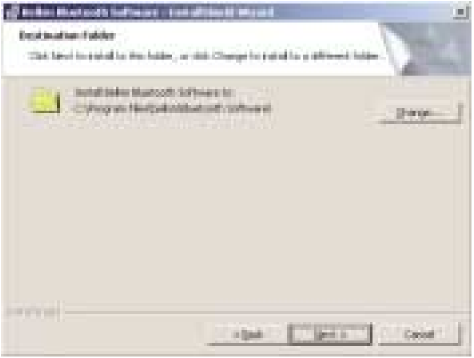
3. Choose "I accept the terms in the license agreement" to accept the license agreement. Click on "Next".



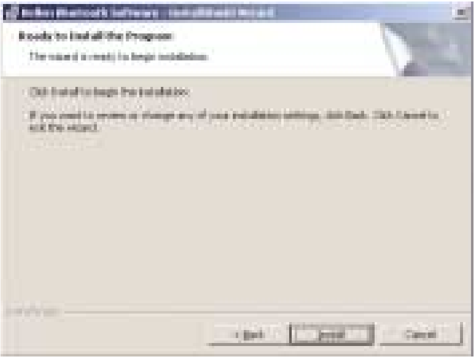
4. Name your device and select the type of computer you are installing your USB Adapter in. Click on "Next".



5. Specify the location where the software and driver will be installed on your hard drive. It is recommended that you install the software and driver to the default directory "C:\Program Files\belkin\Bluetooth Software". Click on "Next".

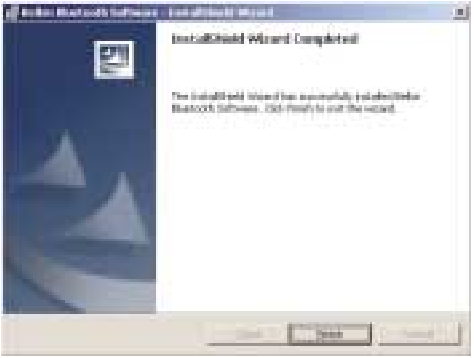


6. Confirm that the device software and driver are ready to be installed and click on "Install".



Note: If at any time during the installation process you receive a "Device Signature Notice", click "Yes" or "OK" to continue the installation process.

7. Confirm the completion of installation; click "Finish" and then restart the system.



Note: Your USB Adapter is sensitive to static electricity, which can damage its delicate electrical components. To protect your device, always touch the metal chassis of your computer before handling the USB Adapter. This will ground any potential electrostatic discharge. Avoid touching the metal connector when handling the USB Adapter. Dry weather conditions or walking across carpeted floors may cause you to acquire an electrostatic charge.

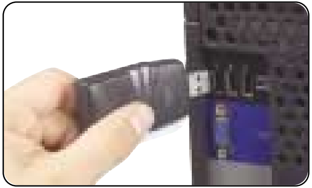
Overview

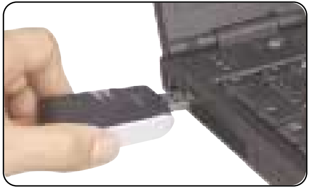
There are two ways to use your USB Adapter:

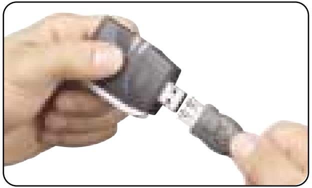
1. Connect the USB Adapter directly to an available USB A-type connector on your desktop or notebook computer.
2. Connect the USB Adapter directly to the included 5-foot USB extension cable, and then connect the other end of the cable to an available USB A-type connector on your desktop or notebook computer.

INSTALLING THE USB ADAPTER (CONT'D)

Note: Your USB Adapter is equipped with a powerful antenna, which provides optimal performance of the radio. In some instances, attaching the USB Adapter directly to the rear of a desktop PC is not the optimal place for the antenna to propagate its radio signal. For these instances, we recommend you use the included USB extension cable to extend the USB Adapter to a more optimal place for the radio signals to propagate.







1. After installing the software and restarting the system, insert the USB Adapter into an available USB port. You should see your system register a new USB device found.

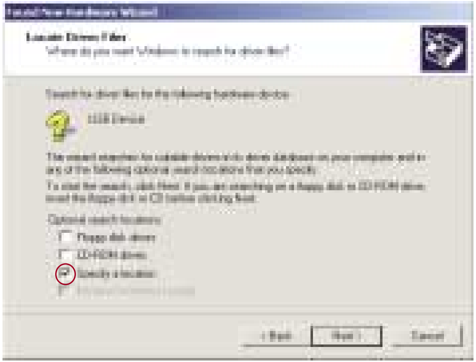
2. Choose "Search for a suitable driver for my device"; then click on "Next".

Note: If you receive a Microsoft Digital Signature Notice, click "Continue" to complete the installation process.





3. Select "Specify a Location" and browse for the location of the device driver "C:\Program Files\Belkin\Bluetooth Software\bin\"; then click "Next".



4. Confirm that the device driver was found and click on "Next".



5. A window will appear that confirms the completion of the driver installation; click on "Finish".



6. "My Bluetooth Places" should appear on your desktop. Your installation process now complete.

A variety of *Bluetooth* services and explanations of each service can be found in the “Help” file of the “My Bluetooth Places” program.

To customize the configuration settings of *Bluetooth* software for Windows operating system, follow the instructions described below:

1. Right click on the *Bluetooth* icon on the right-hand side of the task bar of your screen. The “Bluetooth Configuration” window appears to allow you to customize the configuration settings of “Explore”, “Setup”, or “Services”. In the “Setup” menu, there are two extended items, ”Security“ and “Configuration”.

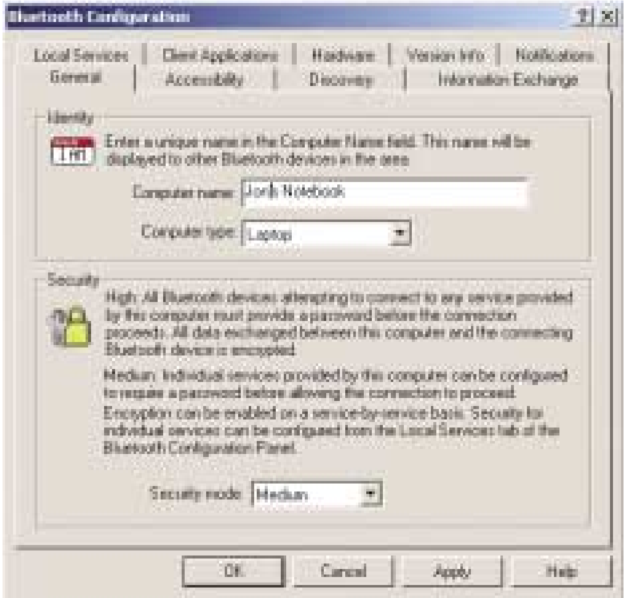


2. Click on "Configuration".

   a) The "General" tab of "Configuration" allows you to customize the device's user name, type, and security type.

   b) The "Accessibility" tab allows you to specify which individual devices are allowed to access the user's computer.

   c) The "Discovery" tab allows you to specify which individual devices, type of, or class of device the user's computer is allowed access to.



d) The "Information Exchange" tab allows you to specify the location of different types of files.

e) The "Local Services" tab indicates the services this computer makes available to the other computers.

f) The "Client Applications" tab indicates the properties of each application.

g) The "Hardware" tab indicates device information of the user's hardware.

h) The "Version Info" tab indicates the module version of the user's software component.

i) The "Notifications" tab lets you associate a sound (Windows *.wav file) with specific *Bluetooth* events.

The "My Bluetooth Places" program provides a quick and easy way to perform different application services through *Bluetooth* connections. A variety of *Bluetooth* services and explanations of each service can be found in the "Help" file of the "My Bluetooth Places" program.

Bluetooth Services

Dial-Up Networking: Allows your computer (as client) to establish a *Bluetooth* wireless connection to a *Bluetooth* device (as server) to access the server's modem service to the Internet.

Generic Serial: Allows your computer (as client) to establish a *Bluetooth* wireless connection to a *Bluetooth* device (as server) using a temporary serial port connection to allow legacy applications to utilize the *Bluetooth* connection.

LAN Access: Allows your computer (as client) to establish a *Bluetooth* wireless connection to a *Bluetooth* device (as server) to access the server's connected LAN network service.

Fax Client: Allows your computer (as client) to establish a *Bluetooth* wireless connection to a *Bluetooth* device (as server) to utilize the fax facility attached to the server.

FTP: Allows your computer (as client) to establish a *Bluetooth* wireless connection to a *Bluetooth* device (as server) to perform file system actions.

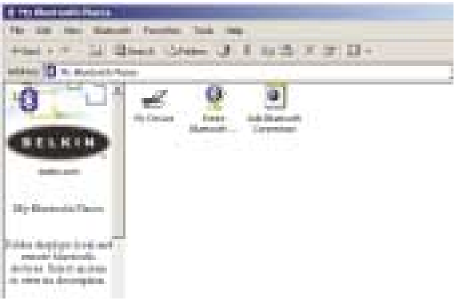
Inbox: Allows your computer (as client) to establish a *Bluetooth* wireless connection to a *Bluetooth* device (as server) to send files, e.g. business card, e-mail, etc., through server's personal information manager (PIM) actions.

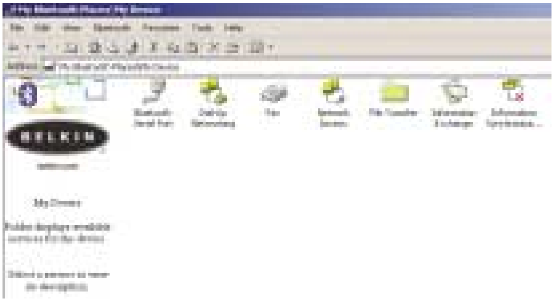
OBEX IrMC Sync: Allows your computer (as client) to establish a *Bluetooth* wireless connection to a *Bluetooth* device (as server) to synchronize the two devices' mailing address book.

To use the “My Bluetooth Places” program, follow the instructions described below:

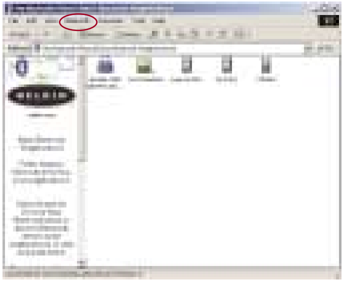
1. Click “My Bluetooth Places” on your screen. Three icons—“My Device”, “Entire Bluetooth Neighborhood”, and “Add Bluetooth Connection”—appear inside the window.

2. Click “My Device” to see which of your application services are available to other devices. The icons without “X” indicate the available *Bluetooth* services.





3. Click “Entire Bluetooth Neighborhood” from the “My Bluetooth Places” window to search for devices available to you. Once *Bluetooth* devices are detected, icons with device names will be displayed on your screen. You may initiate a search for devices by selecting “Bluetooth” from the toolbar of the “Entire Bluetooth Neighborhood” window.

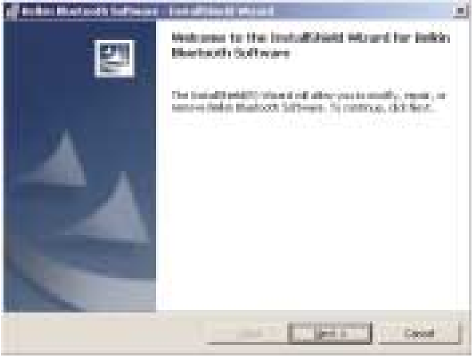


4. Click on each available device, for example, a device name “Jon’s Desktop”, to see which services are available to you. Double-click on each icon to begin the different services.



This section contains instructions for uninstalling the software required to use your USB Adapter.

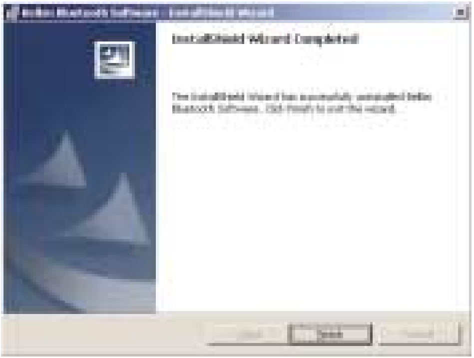
1. Insert the CD-ROM included with your USB Adapter.
2. The "InstallShield Wizard" should automatically load. If it does not load, explore the CD and run the "Setup.exe" file.
3. The "InstallShield" window should now appear. Click "Next".



4. Click "Remove" to initiate the UninstallShield Wizard and remove the software from your PC.



5. Click "Finish" to complete the uninstall.



GLOSSARY

Authentication	Security feature that requires users to verify a numeric password before exchanging data.
Authorization	Security feature that requires user approval before another user is allowed to share data.
Bluetooth Neighborhood	A collection of *Bluetooth* devices.
Bonded Device	Recognized by your device so as not to require authentication or authorization.
Device	Device enabled with *Bluetooth* technology.
Device Address	Unique electronic address of a *Bluetooth* device.
Device Discovery	The location and recognition of one *Bluetooth* device by another.
Device Group	Compilation of several *Bluetooth* devices into a group, normally to conduct related tasks.
Device Name	Name that a *Bluetooth* device provides when discovered by another device.
Service Discovery	Determines which applications other devices have in common with yours.

DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Belkin Components, of 501 West Walnut Street, Compton, CA 90220, declare under our sole responsibility that the product,

F8T001

to which this declaration relates, complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Exposure to Radio Frequency Radiation.

The radiated output power of this device is far below the FCC radio frequency exposure limits. Nevertheless, the device shall be used in such manner that the potential for human contact normal operation is minimized.

When connecting an external antenna to the device, the antenna shall be placed in such a manner to minimize the potential for human contact during normal operation. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions,

it may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications to this device that are not expressly approved by Belkin Components may void the users authority to operate the equipment.

Canada-Industry Canada (IC)

The wireless radio of this device complies with RSS 139 & RSS 210 Industry Canada. This Class B digital complies with Canadian ICES-003.

Cet appareil numérique de la classe B conforme á la norme NMB-003 du Canada.

Europe-European Union Notice

Radio products with the CE 0359 or CE alert marking comply with the R&TTE Directive (1995/5/EC) issued by the Commission of the European Community.

CE 0359 (!)

Compliance with this directive implies conformity to the following European Norms (in brackets are the equivalent international standards).

CE 0359 ⓘ

- EN 60950 (IEC60950) – Product Safety
- EN 300 328 Technical requirement for radio equipment
- ETS 300 826 General EMC requirements for radio equipment.

To determine the type of transmitter, check the identification label on your Belkin product.

Products with the CE marking comply with the EMC Directive (89/336/EEC) and the Low Voltage Directive (72/23/EEC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms (in brackets are the equivalent international standards).

- EN 55022 (CISPR 22) – Electromagnetic Interference
- EN 55024 (IEC61000-4-2,3,4,5,6,8,11)- Electromagnetic Immunity
- EN 61000-3-2 (IEC610000-3-2) - Power Line Harmonics
- EN 61000-3-3 (IEC610000) – Power Line Flicker
- EN 60950 (IEC60950) – Product Safety

Products that contain the radio transmitter are labeled with CE 0359 or CE alert marking and may also carry the CE logo.

Belkin Components Limited One Year Product Warranty

Belkin Components warrants this product against defects in materials and workmanship for its warranty period. If a defect is discovered, Belkin will, at its option, repair or replace the product at no charge provided it is returned during the warranty period, with transportation charges prepaid, to the authorized Belkin dealer from whom you purchased the product. Proof of purchase may be required.

This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication; if the product has been modified without the written permission of Belkin; or if any Belkin serial number has been removed or defaced.

THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE IN LIEU OF ALL OTHERS, WHETHER ORAL OR WRITTEN, EXPRESSED OR IMPLIED. BELKIN SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

No Belkin dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

BELKIN IS NOT RESPONSIBLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO, LOST PROFITS, DOWNTIME, GOODWILL, DAMAGE TO OR REPROGRAMMING, OR REPRODUCING ANY PROGRAM OR DATA STORED IN, OR USED WITH, BELKIN PRODUCTS.

Some states do not allow the exclusion or limitation of incidental or consequential damages or exclusions of implied warranties, so the above limitations of exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

BELKIN®

belkin.com

Belkin Components
501 West Walnut Street
Compton • CA • 90220 • USA
Tel: 310.898.1100
Fax: 310.898.1111

Belkin Components, Ltd.
Express Business Park
Shipton Way • Rushden • NN10 6GL
United Kingdom
Tel: +44 (0) 1933 35 2000
Fax: +44 (0) 1933 31 2000

Belkin Components B.V.
Starparc Building • Boeing Avenue 333
1119 PH Schiphol-Rijk • The Netherlands
Tel: +31 (0) 20 654 7300
Fax: +31 (0) 20 654 7349

Belkin Components, Ltd.
7 Bowen Cresent • West Gosford
NSW 2250 • Australia
Tel: +61 (2) 4372 8600
Fax: +61 (2) 4325 4277

P74069